FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
City of Austin

AUTHORIZING THE OPERATION OF
Nacogdoches Generating Facility
Fossil Fuel Electric Power Generation

LOCATED AT
Nacogdoches County, Texas
Latitude 31° 49′ 56″ Longitude 94° 54′ 6″
Regulated Entity Number: RN103219127

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site, emission units and affected source listed in this permit. Operations of the site, emission units and affected source listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site, emission units and affected source authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site, emission units and affected source.

Permit No: O3455 Issuance Date: _____

_____
For the Commission

Table of Contents

General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:

    A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.

    B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

    C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.

    D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

    E. Emission units subject to 40 CFR Part 63, Subparts YYYY, ZZZZ and DDDDD as identified in the attached Applicable Requirements Summary table are subject to

30 TAC Chapter 113, Subchapter C, § 113.1080, § 113.1090 and § 113.1130 which incorporates the 40 CFR Part 63 Subparts by reference.

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):

   A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements

   B. Title 30 TAC § 101.3 (relating to Circumvention)

   C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ

   D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ

   E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)

   F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)

   G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)

   H. Title 30 TAC § 101.221 (relating to Operational Requirements)

   I. Title 30 TAC § 101.222 (relating to Demonstrations)

   J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)

3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

   A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

      (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)

      (ii) Title 30 TAC § 111.111(a)(1)(E)

      (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)

      (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that

does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

(1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.

(2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

(3) Records of all observations shall be maintained.

(4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is

determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

(c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)

(iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)

(iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer

visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.

E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).

F. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:

(i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)

(ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)

(iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)

G. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:

(i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)

(ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)

(iii) Title 30 TAC § 111.209 (relating to Exception for Disposal Fires)

(iv) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)

(v) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)

4. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:

A. When filling stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons at a Stage I motor vehicle fuel dispensing facility, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:

(i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

(ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)

(iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)

B. Title 40 CFR § 60.8 (relating to Performance Tests)

C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)

D. Title 40 CFR § 60.12 (relating to Circumvention)

E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)

F. Title 40 CFR § 60.14 (relating to Modification)

G. Title 40 CFR § 60.15 (relating to Reconstruction)

H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

6. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

7. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local

air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

8. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached "CAM Summary" upon issuance of the permit. In addition, the permit holder shall comply with the following:

   A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).

   B. The permit holder shall report, consistent with the averaging time identified in the "CAM Summary," deviations as defined by the deviation limit in the "CAM Summary." Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

   C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "CAM Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).

   D. The permit holder shall operate the monitoring, identified in the attached "CAM Summary," in accordance with the provisions of 40 CFR § 64.7.

   E. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.

9. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

10. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the permits by rule identified in the PBR Supplemental Tables in the application), standard

permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

A. Are incorporated by reference into this permit as applicable requirements

B. Shall be located with this operating permit

C. Are not eligible for a permit shield

11. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.

12. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

13. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.

14. Use of Discrete Emission Credits to comply with the applicable requirements:

A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:

(i) Title 30 TAC Chapter 115

(ii) Title 30 TAC Chapter 117

(iii) If applicable, offsets for Title 30 TAC Chapter 116

(iv) Temporarily exceed state NSR permit allowables

B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:

(i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)

(ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4

(iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

(iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

(v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Protection of Stratospheric Ozone

15. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:

A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

Permit Location

16. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

17. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Acid Rain Permit Requirements

18. For unit BFB-1 (identified in the Certificate of Representation as unit BFB-1), located at the affected source identified by ORIS/Facility code 55708, the designated representative and the owner or operator, as applicable, shall comply with the following Acid Rain Permit requirements.

A. General Requirements

(i) Under 30 TAC § 122.12(1) and 40 CFR Part 72, the Acid Rain Permit requirements contained here are a separable portion of the Federal Operating

Permit (FOP) and have an independent public comment process which may be separate from, or combined with the FOP.

(ii) The owner and operator shall comply with the requirements of 40 CFR Part 72 and 40 CFR Part 76. Any noncompliance with the Acid Rain Permit will be considered noncompliance with the FOP and may be subject to enforcement action.

(iii) The owners and operators of the affected source shall operate the source and the unit in compliance with the requirements of this Acid Rain Permit and all other applicable State and federal requirements.

(iv) The owners and operators of the affected source shall comply with the General Terms and Conditions of the FOP that incorporates this Acid Rain Permit.

(v) The term for the Acid Rain permit shall commence with the issuance of the FOP that incorporates the Acid Rain permit and shall be run concurrent with the remainder of the term of the FOP. Renewal of the Acid Rain permit shall coincide with the renewal of the FOP that incorporates the Acid Rain permit and subsequent terms shall be no more than five years from the date of renewal of the FOP and run concurrent with the permit term of the FOP.

B. Monitoring Requirements

(i) The owners and operators, and the designated representative, of the affected source and each affected unit at the source shall comply with the monitoring requirements contained in 40 CFR Part 75.

(ii) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 and any other credible evidence shall be used to determine compliance by the affected source with the acid rain emissions limitations and emissions reduction requirements for SO_2 and NO_x under the ARP.

(iii) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emission of other pollutants or other emissions characteristics at the unit under other applicable requirements of the FCAA Amendments (42 U.S.C. 7401, as amended November 15, 1990) and other terms and conditions of the operating permit for the source.

C. SO_2 emissions requirements

(i) The owners and operators of each source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for SO_2.

(ii) As of the allowance transfer deadline the owners and operators of the affected source and each affected unit at the source shall hold, in the unit's compliance subaccount, allowances in an amount not less than the total annual emissions of SO_2 for the previous calendar year.

(iii) Each ton of SO_2 emitted in excess of the acid rain emissions limitations for SO_2 shall constitute a separate violation of the FCAA amendments.

(iv) An affected unit shall be subject to the requirements under (i) and (ii) of the SO_2 emissions requirements as follows:

(1) Starting January 1, 2000, an affected unit under 40 CFR § 72.6(a)(2); or

(2) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR Part 75, an affected unit under 40 CFR § 72.6(a)(3).

(v) Allowances shall be held in, deducted from, or transferred into or among Allowance Tracking System accounts in accordance with the requirements of the ARP.

(vi) An allowance shall not be deducted, for compliance with the requirements of this permit, in a calendar year before the year for which the allowance was allocated.

(vii) An allowance allocated by the EPA Administrator or under the ARP is a limited authorization to emit SO_2 in accordance with the ARP. No provision of the ARP, Acid Rain permit application, this Acid Rain Permit, or an exemption under 40 CFR §§ 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(viii) An allowance allocated by the EPA Administrator under the ARP does not constitute a property right.

D. NO_x Emission Requirements

(i) The owners and operators of the source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for NO_x under 40 CFR Part 76.

E. Excess emissions requirements for SO_2 and NO_x.

(i) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77.

(ii) If an affected source has excess emissions in any calendar year shall, as required by 40 CFR Part 77:

(1) Pay, without demand, the penalty required and pay, upon demand, the interest on that penalty.

(2) Comply with the terms of an approved offset plan.

F. Recordkeeping and Reporting Requirements

(i) Unless otherwise provided, the owners and operators of the affected source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the EPA Administrator.

(1) The certificate of representation for the designated representative for the source and each affected unit and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR § 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such

documents are superseded because of the submission of a new certificate of representation changing the designated representative.

(2) All emissions monitoring information, in accordance with 40 CFR Part 75, provided that to the extent that 40 CFR Part 75 provides for a 3-year period for recordkeeping (rather than a five-year period cited in 30 TAC § 122.144), the 3-year period shall apply.

(3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the ARP or relied upon for compliance certification.

(4) Copies of all documents used to complete an acid rain permit application and any other submission under the ARP or to demonstrate compliance with the requirements of the ARP.

(ii) The designated representative of an affected source and each affected unit at the source shall submit the reports required under the ARP including those under 40 CFR Part 72, Subpart I and 40 CFR Part 75.

G. Liability

(i) Any person who knowingly violates any requirement or prohibition of the ARP, a complete acid rain permit application, an acid rain permit, or a written exemption under 40 CFR §§ 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to FCAA § 113(c).

(ii) Any person who knowingly makes a false, material statement in any record, submission, or report under the ARP shall be subject to criminal enforcement pursuant to FCAA § 113(c) and 18 U.S.C. 1001.

(iii) No permit revision shall excuse any violation of the requirements of the ARP that occurs prior to the date that the revision takes effect.

(iv) The affected source and each affected unit shall meet the requirements of the ARP contained in 40 CFR Parts 72 through 78.

(v) Any provision of the ARP that applies to an affected source or the designated representative of an affected source shall also apply to the owners and operators of such source and of the affected units at the source.

(vi) Any provision of the ARP that applies to an affected unit (including a provision applicable to the DR of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR § 72.44 (Phase II repowering extension plans) and 40 CFR § 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR §§ 75.16, 75.17, and 75.18), the owners and operators and the DR of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the DR and that is located at a source of which they are not owners or operators or the DR.

(vii) Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or DR of such source or unit, shall be a separate violation of the FCAA Amendments.

H. Effect on other authorities. No provision of the ARP, an acid rain permit application, an acid rain permit, or an exemption under 40 CFR §§ 72.7 or 72.8 shall be construed as:

(i) Except as expressly provided in Title IV of the FCAA Amendments, exempting or excluding the owners and operators and, to the extent applicable, the DR of an affected source or affected unit from compliance with any other provision of the FCAA Amendments, including the provisions of Title I of the FCAA Amendments relating to applicable National Ambient Air Quality Standards or State Implementation Plans.

(ii) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the FCAA Amendments.

(iii) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law.

(iv) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(v) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established.

I. The number of SO_2 allowances allocated by the EPA in 40 CFR Part 73 is enforceable only by the EPA Administrator.

Cross-State Air Pollution Rule (CSAPR) Trading Program Requirements

19. For unit BFB-1 (identified in the Certificate of Representation as unit BFB-1), located at the affected source identified by ORIS/Facility code 55708, the designated representative and the owner or operator, as applicable, shall comply with the following CSAPR requirements.

A. General Requirements

(i) The owners and operators of the CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall operate the source and the unit in compliance with the requirements of the CSAPR NO_x Ozone Season Group 2 Trading Program and all other applicable State and federal requirements.

(ii) The owners and operators of the CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall comply with the requirements of 40 CFR Part 97, Subpart EEEEE for CSAPR NO_x Ozone Season Group 2 Trading Program, and with the General Terms and Conditions of the Federal Operating Permit (FOP) that incorporates the CSAPR requirements.

B. Description of CSAPR Monitoring Provisions

(i) The CSAPR subject unit(s), and the unit-specific monitoring provisions at this source, are identified in the following paragraph(s). These unit(s) are subject to the requirements for the CSAPR NO_x Ozone Season Group 2 Trading Program.

(1) For unit BFB-1, the owners and operators shall comply with the continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR Part 75, Subpart H for NO_x and heat input.

(ii) The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR §§ 97.830 through 97.835 (CSAPR NO_x Ozone Season Group 2 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable CSAPR trading program.

(iii) Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR §§ 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at https://www.epa.gov/airmarkets/monitoring-plans-part-75-sources.

(iv) Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR Part 75, Subpart E and 40 CFR § 75.66 and § 97.835 (CSAPR NO_x Ozone Season Group 2 Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at https://www.epa.gov/airmarkets/part-75-petition-responses.

(v) Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR §§ 97.830 through 97.834 (CSAPR NO_x Ozone Season Group 2 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR § 75.66 and § 97.835 (CSAPR NO_x Ozone Season Group 2 Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on the EPA's website at https://www.epa.gov/airmarkets/part-75-petition-responses.

(vi) The descriptions of monitoring applicable to the unit(s) included above meet the requirement of 40 CFR §§ 97.830 through 97.834 (CSAPR NO_x Ozone Season Group 2 Trading Program), and therefore procedures for minor permit revisions, in accordance with 30 TAC § 122.217, may be used to add or change this unit's monitoring system description.

Cross-State Air Pollution Rule Permit Requirements

20. CSAPR NO_x Ozone Season Group 2 Trading Program Requirements (40 CFR § 97.806)

A. Designated representative requirements

(i) The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR §§ 97.813 through 97.818.

B. Emissions monitoring, reporting, and recordkeeping requirements

(i) The owners and operators, and the designated representative, of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR § 97.830 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), § 97.831 (initial monitoring system certification and recertification procedures), § 97.832 (monitoring system out-of-control periods), § 97.833 (notifications concerning monitoring), §97.834 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and § 97.835 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(ii) The emissions data determined in accordance with 40 CFR § 97.830 through § 97.835 and any other credible evidence shall be used to calculate allocations of CSAPR NO_x Ozone Season Group 2 allowances under 40 CFR §§ 97.811 (a)(2) and (b) and § 97.812 and to determine compliance with the CSAPR NO_x Ozone Season Group 2 emissions limitation and assurance provisions under paragraph C. below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR §§ 97.830 through 97.835 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

C. NO_x emissions requirements

(i) CSAPR NO_x Ozone Season Group 2 emissions limitation

(1) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold, in the source's compliance account, CSAPR NO_x Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR § 97.824 (a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Ozone Season Group 2 units at the source.

(2) If total NO_x emissions during a control period in a given year from the CSAPR NO_x Ozone Season Group 2 units at a CSAPR NO_x Ozone Season Group 2 source are in excess of the CSAPR NO_x Ozone Season Group 2 emissions limitation set forth in paragraph C.(i)(1) above, then:

(a) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold the CSAPR NO_x Ozone Season Group 2 allowances required for deduction under 40 CFR § 97.824 (d); and

(b) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control

period shall constitute a separate violation of 40 CFR Part 97, Subpart EEEEE and the Clean Air Act.

(ii) CSAPR NO_x Ozone Season Group 2 assurance provisions

(1) If total NO_x emissions during a control period in a given year from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_x Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR § 97.825 (a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR § 97.825 (b), of multiplying -

(a) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and

(b) The amount by which total NO_x emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state for such control period exceed the state assurance level.

(2) The owners and operators shall hold the CSAPR NO_x Ozone Season Group 2 allowances required under paragraph C.(ii)(1) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(3) Total NO_x emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state during a control period in a given year exceed the state assurance level if such total NO_x emissions exceed the sum, for such control period, of the state NO_x Ozone Season Group 2 trading budget under 40 CFR § 97.810 (a) and the state's variability limit under 40 CFR § 97.810 (b).

(4) It shall not be a violation of 40 CFR Part 97, Subpart EEEEE or of the Clean Air Act if total NO_x emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total NO_x emissions from the CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone

Season Group 2 sources in the state during a control period exceeds the common designated representative's assurance level.

(5) To the extent the owners and operators fail to hold CSAPR NO_x Ozone Season Group 2 allowances for a control period in a given year in accordance with paragraphs C.(ii)(1) through (3) above,

(a) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(b) Each CSAPR NO_x Ozone Season Group 2 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs C.(ii)(1) through (3) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart EEEEE and the Clean Air Act.

(iii) Compliance periods

(1) A CSAPR NO_x Ozone Season Group 2 unit shall be subject to the requirements under paragraph C.(i) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.830 (b) and for each control period thereafter.

(2) A CSAPR NO_x Ozone Season Group 2 unit shall be subject to the requirements under paragraph C.(ii) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.830 (b) and for each control period thereafter.

(iv) Vintage of allowances held for compliance

(1) A CSAPR NO_x Ozone Season Group 2 allowance held for compliance with the requirements under paragraph C.(i)(1) above for a control period in a given year must be a CSAPR NO_x Ozone Season Group 2 allowance that was allocated for such control period or a control period in a prior year.

(2) A CSAPR NO_x Ozone Season Group 2 allowance held for compliance with the requirements under paragraphs C.(i)(2)(a) and (ii)(1) through (3) above for a control period in a given year must be a CSAPR NO_x Ozone Season Group 2 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(v) Allowance Management System requirements. Each CSAPR NO_x Ozone Season Group 2 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart EEEEE.

(vi) Limited authorization. A CSAPR NO_x Ozone Season Group 2 allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:

(1) Such authorization shall only be used in accordance with the CSAPR NO_x Ozone Season Group 2 Trading Program; and

(2) Notwithstanding any other provision of 40 CFR Part 97, Subpart EEEEE, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(vii) Property right. A CSAPR NO_x Ozone Season Group 2 allowance does not constitute a property right.

D. FOP revision requirements

(i) No FOP revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO_x Ozone Season Group 2 allowances in accordance with 40 CFR Part 97, Subpart EEEEE.

(ii) This FOP incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR §§ 97.830 through 97.835, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, subpart H), an excepted monitoring system (pursuant to 40 CFR Part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR § 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, subpart E). Therefore the Description of CSAPR Monitoring Provisions for CSAPR subject unit(s) may be added to, or changed, in this FOP using procedures for minor permit revisions in accordance with 30 TAC § 122.217.

E. Additional recordkeeping and reporting requirements

(i) Unless otherwise provided, the owners and operators of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(1) The certificate of representation under 40 CFR § 97.816 for the designated representative for the source and each CSAPR NO_x Ozone Season Group 2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR § 97.816 changing the designated representative.

(2) All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart EEEEE.

(3) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_x Ozone Season Group 2 Trading Program.

(ii) The designated representative of a CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall make all submissions required under the CSAPR NO_x Ozone Season Group 2 Trading Program, except as provided in 40 CFR § 97.818. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under 30 TAC § 122.165.

F. Liability

(i) Any provision of the CSAPR NO_x Ozone Season Group 2 Trading Program that applies to a CSAPR NO_x Ozone Season Group 2 source or the designated representative of a CSAPR NO_x Ozone Season Group 2 source shall also apply to the owners and operators of such source and of the CSAPR NO_x Ozone Season Group 2 units at the source.

(ii) Any provision of the CSAPR NO_x Ozone Season Group 2 Trading Program that applies to a CSAPR NO_x Ozone Season Group 2 unit or the designated representative of a CSAPR NO_x Ozone Season Group 2 unit shall also apply to the owners and operators of such unit.

G. Effect on other authorities

(i) No provision of the CSAPR NO_x Ozone Season Group 2 Trading Program or exemption under 40 CFR § 97.805 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO_x Ozone Season Group 2 source or CSAPR NO_x Ozone Season Group 2 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
BFB-1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Db	40 CFR Part 60, Subpart Db	No changing attributes.
BFB-1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD	40 CFR Part 63, Subpart DDDDD	No changing attributes.
BFB-1S	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1151	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
BFB-1S	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
CT-1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
EMGEN-2	SRIC ENGINES	N/A	60IIII	40 CFR Part 60, Subpart IIII	No changing attributes.
EMGEN-2	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FWPUMP-2	SRIC ENGINES	N/A	60IIII	40 CFR Part 60, Subpart IIII	No changing attributes.
FWPUMP-2	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
PROPHTR	PROCESS HEATERS/FURNACES	N/A	63DDDDD	40 CFR Part 63, Subpart DDDDD	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BFB-1	EU	60Db	NO_X	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
BFB-1	EU	60Db	PM	40 CFR Part 60, Subpart Db	§ 60.43b(h)(1) § 60.43b(e) § 60.43b(g) § 60.46b(a)	No facility for which construction, reconstruction, or modification began after February 28, 2005, and that combusts coal, oil, wood, a mixture of these fuels, or a mixture of these fuels with any other fuels shall discharge PM in excess of 13 ng/J (0.030 lb/MMBtu) heat input.	§ 60.46b(b) § 60.46b(d) § 60.46b(d)(1) [G]§ 60.46b(d)(2) § 60.46b(d)(3) § 60.46b(d)(4) § 60.46b(d)(5) [G]§ 60.46b(d)(6)	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
BFB-1	EU	60Db	PM (Opacity)	40 CFR Part 60, Subpart Db	§ 60.43b(f) § 60.43b(g) § 60.46b(a) [G]§ 60.48b(j)	On/after §60.8 tests, no facility firing specified fuels shall discharge gases exhibiting greater than 20% opacity (6-minute average), except for one 6-minute/hour of not more than 27% opacity.	§ 60.46b(d) § 60.46b(d)(7) § 60.48b(a) [G]§ 60.48b(a)(1) [G]§ 60.48b(a)(2) § 60.48b(a)(3)	§ 60.48b(a) [G]§ 60.48b(a)(1) [G]§ 60.48b(a)(2) § 60.48b(a)(3) [G]§ 60.48b(j) [G]§ 60.49b(d) [G]§ 60.49b(f) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b) § 60.49b(h) § 60.49b(h)(3) § 60.49b(v) § 60.49b(w)
BFB-1	EU	60Db	SO_2	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
BFB-1	EU	63DDDDD	CO	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 2.9.a	For existing fluidized bed units with heat input	§ 63.7505(c) § 63.7505(d)	§ 63.7535(a) § 63.7535(b)	§ 63.7515(f) § 63.7530(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.7500(a)(1) § 63.7500(a)(1)-Table 3.3 [G]§ 63.7500(a)(1)-Table 3.5 § 63.7500(a)(1)-Table 3.6 § 63.7500(a)(2) § 63.7500(a)(2)-Table 4.7 § 63.7500(a)(3) § 63.7500(f) § 63.7505(a) § 63.7505(d) [G]§ 63.7505(d)(1) § 63.7505(e) § 63.7530(h) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10) § 63.7540(a)(13) [G]§ 63.7540(a)(8) § 63.7540(d)	capacity of 10 million Btu per hour or greater designed to burn biomass/bio-based solids, carbon monoxide (using CEMS alternative) shall not exceed 310 ppm by volume on a dry basis corrected to 3 percent oxygen, 30-day rolling average, using specified sampling volume or test run duration.	[G]§ 63.7505(d)(1) [G]§ 63.7505(d)(2) § 63.7505(d)(3) § 63.7505(d)(4) § 63.7510(e) § 63.7510(h) § 63.7510(i) § 63.7510(j) § 63.7510(k) § 63.7515(g) § 63.7515(i) § 63.7525(a) § 63.7525(a)(1) [G]§ 63.7525(a)(2) § 63.7525(a)(3) § 63.7525(a)(4) § 63.7525(a)(5) § 63.7525(a)(6) § 63.7530(a) § 63.7530(b) § 63.7530(b)(4) § 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10) [G]§ 63.7540(a)(8)	§ 63.7535(c) § 63.7535(d) [G]§ 63.7540(a)(8) § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) [G]§ 63.7555(b) § 63.7555(c) [G]§ 63.7555(d) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7530(f) § 63.7540(b) § 63.7540(d) § 63.7545(a) § 63.7545(b) § 63.7545(c) § 63.7545(d) [G]§ 63.7545(e) [G]§ 63.7545(h) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(e) [G]§ 63.7550(h)
BFB-1	EU	63DDDDD	Hydrogen Chloride	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 2.1.a § 63.7500(a)(1) § 63.7500(a)(1)-Table 3.3 [G]§ 63.7500(a)(1)-Table 3.5 § 63.7500(a)(1)-Table 3.6 § 63.7500(a)(2)	For existing units in all subcategories with heat input capacity of 10 million Btu per hour or greater designed to burn solid fuel, hydrogen chloride shall not exceed 0.022 lb per MMBtu heat input, using specified sampling volume or test run duration.	§ 63.7505(c) § 63.7505(d) § 63.7510(a) § 63.7510(a)(1) [G]§ 63.7510(a)(2) § 63.7510(e) § 63.7510(h) § 63.7510(i) § 63.7510(j) § 63.7510(k)	§ 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) [G]§ 63.7540(a)(2) § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(c) [G]§ 63.7555(d)	§ 63.7515(f) § 63.7530(e) § 63.7530(f) § 63.7540(b) § 63.7540(d) § 63.7545(a) § 63.7545(b) § 63.7545(c) § 63.7545(d) [G]§ 63.7545(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.7500(a)(2)-Table 4.7 § 63.7500(a)(3) § 63.7500(f) § 63.7505(a) § 63.7505(d) § 63.7505(e) § 63.7530(h) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10) § 63.7540(a)(13) [G]§ 63.7540(a)(3) § 63.7540(a)(4) § 63.7540(d)		§ 63.7515(a) § 63.7515(b) § 63.7515(c) § 63.7515(g) § 63.7520(a) § 63.7520(b) [G]§ 63.7520(b)-Table 5.3 § 63.7520(c) § 63.7520(d) § 63.7520(e) § 63.7520(f) § 63.7530(a) § 63.7530(b) § 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10) [G]§ 63.7540(a)(3) § 63.7540(a)(4)	§ 63.7560(a) § 63.7560(b) § 63.7560(c)	[G]§ 63.7545(h) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(d) [G]§ 63.7550(h)
BFB-1	EU	63DDDDD	Mercury	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 2.1.b § 63.7500(a)(1)-Table 3.3 [G]§ 63.7500(a)(1)-Table 3.5 § 63.7500(a)(1)-Table 3.6 § 63.7500(a)(2) § 63.7500(a)(2)-Table 4.7 § 63.7500(a)(3) § 63.7500(f) § 63.7505(a) § 63.7505(d) § 63.7505(e)	For existing units in all subcategories with heat input capacity of 10 million Btu per hour or greater designed to burn solid fuel, mercury shall not exceed 0.0000057 lb per MMBtu heat input, using specified sampling volume or test run duration.	§ 63.7505(c) § 63.7505(d) § 63.7510(a) § 63.7510(a)(1) [G]§ 63.7510(a)(2) § 63.7510(e) § 63.7510(h) § 63.7510(i) § 63.7510(j) § 63.7510(k) § 63.7515(a) § 63.7515(b) § 63.7515(c) § 63.7515(g) § 63.7520(a) § 63.7520(b)	§ 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) [G]§ 63.7540(a)(2) § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(c) [G]§ 63.7555(d) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7515(f) § 63.7530(e) § 63.7530(f) § 63.7540(b) § 63.7540(d) § 63.7545(a) § 63.7545(b) § 63.7545(c) § 63.7545(d) [G]§ 63.7545(e) [G]§ 63.7545(h) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(d) [G]§ 63.7550(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.7530(h) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10) § 63.7540(a)(13) § 63.7540(a)(6) § 63.7540(d)		[G]§ 63.7520(b)-Table 5.4 § 63.7520(c) § 63.7520(d) § 63.7520(e) § 63.7520(f) § 63.7530(a) § 63.7530(b) § 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10) § 63.7540(a)(6)		
BFB-1	EU	63DDDDD	PM	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 2.9.b § 63.7500(a)(1) § 63.7500(a)(1)-Table 3.3 [G]§ 63.7500(a)(1)-Table 3.5 § 63.7500(a)(1)-Table 3.6 § 63.7500(a)(2) § 63.7500(a)(2)-Table 4.7 § 63.7500(a)(3) § 63.7500(f) § 63.7505(a) § 63.7505(d) § 63.7505(e) § 63.7530(h) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10) § 63.7540(a)(13) § 63.7540(a)(7)	For existing fluidized bed units with heat input capacity of 10 million Btu per hour or greater designed to burn biomass/bio-based solids, filterable particulate matter shall not exceed 0.11 lb per MMBtu heat input, using specified sampling volume or test run duration.	§ 63.7500(a)(2)-Table 4.3.b § 63.7505(c) § 63.7505(d) § 63.7510(a) § 63.7510(a)(1) [G]§ 63.7510(a)(2) § 63.7510(d) § 63.7510(e) § 63.7510(h) § 63.7510(i) § 63.7510(j) § 63.7510(k) § 63.7515(a) § 63.7515(b) § 63.7515(c) § 63.7515(g) § 63.7520(a) § 63.7520(b) § 63.7520(b)-Table 5.1 § 63.7520(c) § 63.7520(d)	§ 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(c) [G]§ 63.7555(d) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7515(f) § 63.7530(e) § 63.7530(f) § 63.7540(b) § 63.7540(d) § 63.7545(a) § 63.7545(b) § 63.7545(c) § 63.7545(d) [G]§ 63.7545(e) [G]§ 63.7545(h) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(d) [G]§ 63.7550(h)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.7540(d)		§ 63.7520(e) § 63.7520(f) [G]§ 63.7525(j) § 63.7530(a) § 63.7530(b) § 63.7530(b)(4) § 63.7530(b)(4)(vii) § 63.7535(a) § 63.7535(b) § 63.7535(c) § 63.7535(d) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(a)(10) § 63.7540(a)(7)		
BFB-1S	EP	R1151	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
BFB-1S	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See CAM Summary	None	None
CT-1	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						total flow rate of at least 100,000 acfm unless a CEMS is installed.			
EMGEN-2	EU	60IIII	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	None
EMGEN-2	EU	60IIII	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than 560 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NOx emission limit of 6.4 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	None
EMGEN-2	EU	60IIII	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than	§ 60.4209(a)	§ 60.4214(b)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).			
EMGEN-2	EU	60IIII	PM (Opacity)	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.113(a)(1) § 89.113(a)(2) § 89.113(a)(3)	Emergency stationary CI ICE, that are not fire pump engines, with displacement < 10 lpc and not constant-speed engines, with max engine power < 2237 KW and a 2007 model year and later or max engine power > 2237 KW and a 2011 model year and later, must comply with following opacity emission limits: 20% during acceleration, 15% during lugging, 50% during peaks in either acceleration or lugging modes as stated in §60.4202(a)(1)-(2), (b)(2) and §89.113(a)(1)-(3) and §1039.105(b)(1)-(3).	§ 60.4209(a)	§ 60.4214(b)	None
EMGEN-2	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(b)(1) § 63.6595(c) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	An affected source which meets either of the criteria in paragraphs §63.6590(b)(1)(i)-(ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification	None	None	§ 63.6645(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						requirements of §63.6645(f).			
FWPUMP-2	EU	60IIII	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with an NMHC+NOx emission limit of 4.0 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	None
FWPUMP-2	EU	60IIII	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(c)-Table 4 § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary fire pump CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 560 KW and a displacement of less than 30 liters per cylinder and is a 2009 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as listed in Table 4 to this subpart.	§ 60.4209(a)	§ 60.4214(b)	None
FWPUMP-2	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
PROPHTR	EU	63DDDDD	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.1 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7500(e) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(12) § 63.7540(a)(13)	For a new or existing boiler or process heater with a heat input capacity of less than or equal to 5 million Btu per hour designed to burn gas 1, a tune-up of the boiler or process heater must be conducted every 5 years as specified in § 63.7540.	§ 63.7515(d) [G]§ 63.7521(f) [G]§ 63.7521(g) § 63.7521(h) § 63.7521(i) § 63.7530(g) § 63.7540(a) [G]§ 63.7540(a)(10) [G]§ 63.7540(c)	§ 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(g) § 63.7555(h) § 63.7560(a) § 63.7560(b) § 63.7560(c)	[G]§ 63.7521(g) § 63.7530(e) § 63.7530(f) § 63.7540(b) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) [G]§ 63.7545(f) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h)

Additional Monitoring Requirements

CAM Summary

Unit/Group/Process Information	
ID No.: BFB-1S	
Control Device ID No.: F01	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Bag Leak Detection Signal	
Minimum Frequency: Four times per hour	
Averaging Period: One hour	
Deviation Limit: The maximum signal from the bag leak detection system shall not exceed one nano amps (nA).	
CAM Text: The TFM bag leak detection system shall be operated and maintained in accordance with manufacturer's recommendations. The bag leak detection system shall be equipped with an alarm that shall sound automatically upon detection of a broken bag. The data are collected at the emission point - the probe is located inside the baghouse exhaust duct. The triboelectric signal is directly proportional to the amount of particulate in the exhaust if factors such as velocity and particle size remain relatively constant. The monitoring device shall be accurate with a range of +2% nA.	

CAM Summary

Unit/Group/Process Information	
ID No.: BFB-1S	
Control Device ID No.: F01	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Bag Leak Detection Signal	
Minimum Frequency: Four times per hour	
Averaging Period: One hour	
Deviation Limit: The maximum signal from the bag leak detection system shall not exceed one nano amps (nA).	
CAM Text: The TFM bag leak detection system shall be operated and maintained in accordance with manufacturer's recommendations. The bag leak detection system shall be equipped with an alarm that shall sound automatically upon detection of a broken bag. The data are collected at the emission point - the probe is located inside the baghouse exhaust duct. The triboelectric signal is directly proportional to the amount of particulate in the exhaust if factors such as velocity and particle size remain relatively constant. The monitoring device shall be accurate with a range of +2% nA.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: CT-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per quarter	
Averaging Period: N/A	
Deviation Limit: Occurrence of visible emissions having an opacity that is greater than 15% shall be reported as a deviation.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is an opacity above the corresponding opacity limit, the permit holder shall report a deviation.	

Permit Shield

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
BFB-1	N/A	30 TAC Chapter 117, Subchapter E, Division 1	Nacogdoches County is not a named county under this division.
BFB-1	N/A	40 CFR Part 60, Subpart Da	The boiler does not fire more than 250 MMBTU/hr of fossil fuels. The boiler is meeting the requirements of 40 CFR 60, Subpart Db.
BFB-1	N/A	40 CFR Part 60, Subpart Dc	The boiler has a maximum design heat input capacity greater than 29 MW (100 MMBtu/hr).
BFB-1	N/A	40 CFR Part 60, Subpart TTTT	Construction of the boiler commenced prior to January 8, 2014 and has not been modified or reconstructed after June 18, 2018.
BFB-1	N/A	40 CFR Part 63, Subpart JJJJJJ	The site is a major source of HAPs.
BLASTING	N/A	40 CFR Part 63, Subpart XXXXXX	Facility is not “primarily engaged” in dry abrasive blasting operations.
CT-1	N/A	40 CFR Part 63, Subpart Q	Cooling tower unit is not operated with chromium-based water treatment chemicals.
EMGEN-2	N/A	30 TAC Chapter 117, Subchapter E, Division 1	The unit is not an electric power boiler or gas turbine.
FSILO1	N/A	40 CFR Part 60, Subpart OOO	Facility is not a nonmetallic mineral processing plant as defined in 60.671.
FSILO2	N/A	40 CFR Part 60, Subpart OOO	Facility is not a nonmetallic mineral processing plant as defined in 60.671.
FWPUMP-2	N/A	30 TAC Chapter 117, Subchapter E, Division 1	The unit is not an electric power boiler or gas turbine.
GAS-CONT	N/A	40 CFR Part 60, Subpart Kb	Storage tank with a capacity less than 75 m^3 (19,800 gal).

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
GAS-CONT	N/A	40 CFR Part 63, Subpart CCCCCC	Gasoline storage tank is located at a major source of HAPs.
GRP-DIESELTK	TK-DSL-1, TK-DSL-2, TK-DSL-3	40 CFR Part 60, Subpart Kb	The storage capacity for each unit is less than 75 m^3 (19,800 gal).
LIME-DC	N/A	40 CFR Part 60, Subpart OOO	Facility is not a nonmetallic mineral processing plant as defined in 60.671.
LVSTG-1	N/A	30 TAC Chapter 115, Vent Gas Controls	Nacogdoches County is not a named county under this division.
OIL-LOAD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Non-gasoline VOC loading/unloading operations in Nacogdoches County are exempt from the requirements of this division.
PAINTING	N/A	40 CFR Part 63, Subpart MMMM	Surface coating operations performed at a facility maintenance area are not subject to this subpart.
PARTWSH	N/A	30 TAC Chapter 115, Surface Coating Operations	Nacogdoches County is not a named county under this division.
PARTWSH	N/A	40 CFR Part 63, Subpart T	The parts washer solvent contains less than 5% hazardous air pollutants.
WOODFUG	AUTOPILE, C-10/11, C-2, C-5, C-6, C-8, MANPILE, TR-1, TR-10, TR-11, TR-12, TR-2, TR-3, TR-4, TR-5, TR-6, TR-7, TR-8, TR-9, TRK, WDPROC-DC, WDPROC-FUG	40 CFR Part 60, Subpart OOO	Facility is not a nonmetallic mineral processing plant as defined in 60.671.

New Source Review Authorization References

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX1061M1	Issuance Date: 07/30/2021
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 77679	Issuance Date: 07/30/2021
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 09/04/2000
Number: 106.265	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.532	Version No./Date: 09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
AUTOPILE	WOOD STORAGE AUTO PILE	77679, PSDTX1061M1, 106.261/11/01/2003 [147021]
BFB-1	BUBBLING FLUIDIZED BOILER	77679, PSDTX1061M1
BFB-1S	BUBBLING FLUIDIZED BOILER STACK	77679, PSDTX1061M1
BLASTING	SITEWIDE DRY ABRASIVE BLASTING	106.263/11/01/2001
C-10/11	CONVEYOR TO FEED SILOS	77679, PSDTX1061M1
C-2	CONVEYOR FROM RECEIVING	77679, PSDTX1061M1
C-5	WOOD PROCESSING TO STOCKPILE AREA CONVEYOR	77679, PSDTX1061M1
C-6	CONVEYOR TO AUTOPILE	77679, PSDTX1061M1
C-8	CONVEYOR FROM AUTOPILE	77679, PSDTX1061M1
CT-1	COOLING TOWER	77679, PSDTX1061M1
EMGEN-2	EMERGENCY GENERATOR ENGINE	106.511/09/04/2000
FSILO1	BOILER FEED SILO 1	77679, PSDTX1061M1
FSILO2	BOILER FEED SILO 2	77679, PSDTX1061M1
FWPUMP-2	FIRE WATER PUMP DIESEL ENGINE	106.511/09/04/2000
GAS-CONT	GASOLINE STORAGE TANK	106.473/09/04/2000
LIME-DC	LIME SILO DUST COLLECTOR	77679, PSDTX1061M1
LVSTG-1	STEAM TURBINE LUBE OIL VENT	77679, PSDTX1061M1
MANPILE	WOOD STORAGE MANUAL PILE	77679, PSDTX1061M1, 106.261/11/01/2003 [147021]
OIL-LOAD	USED OIL LOADING	106.472/09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
PAINTING	SITEWIDE MAINTENANCE PAINTING	106.263/11/01/2001
PARTWSH	PARTS WASHERS	106.454/11/01/2001
PROPHTR	PROPANE HEATER	77679, PSDTX1061M1
TK-DSL-1	FIRE WATER PUMP DIESEL TANK	77679, PSDTX1061M1
TK-DSL-2	EMERGENCY ENGINE DIESEL TANK	77679, PSDTX1061M1
TK-DSL-3	GENERAL PLANT USE DIESEL FUEL TANK	77679, PSDTX1061M1
TR-1	WOOD CHIPS TO CONVEYORS 1A & 1B	77679, PSDTX1061M1
TR-10	CONVEYOR 9 TO CONVEYOR 10 & 11 TRANSFER	77679, PSDTX1061M1
TR-11	UNDERGROUND PILE RECLAIM TO CONVEYOR 14	77679, PSDTX1061M1
TR-12	CONVEYOR 14 TO CONVEYORS 10 & 11 TRANSFERS	77679, PSDTX1061M1
TR-2	CONVEYORS 1A & 1B TO CONVEYOR 2 TRANSFER	77679, PSDTX1061M1
TR-3	CONVEYOR 3 TO CONVEYOR 5 TRANSFER	77679, PSDTX1061M1
TR-4	CONVEYOR 4 TO CONVEYOR 5 TRANSFER	77679, PSDTX1061M1
TR-5	CONVEYOR 5 TO CONVEYOR 6&7 TRANSFER/BYPASS	77679, PSDTX1061M1
TR-6	CONVEYOR 6 TO RADIAL STACKER	77679, PSDTX1061M1
TR-7	AUTORECLAIMER TO CONVEYOR 8	77679, PSDTX1061M1
TR-8	UNDERGROUND PILE RECLAIM TO CONVEYOR 8	77679, PSDTX1061M1
TR-9	CONVEYOR 8 TO CONVEYOR 9 TRANSFER	77679, PSDTX1061M1
TRK	TRUCK UNLOADER/RECEIVING	77679, PSDTX1061M1, 106.261/11/01/2003 [148095]
WDPROC-DC	WOOD PROCESSING BUILDING DUST	77679, PSDTX1061M1

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
WDPROC-FUG	WOOD PROCESSING BUILDING FUGITIVES	77679, PSDTX1061M1

**This column may include Permit by Rule (PBR) numbers and version dates, PBR Registration numbers in brackets, Standard Permit Registration numbers, Minor NSR permit numbers, and Major NSR permit numbers.

Appendix A

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM ..... actual cubic feet per minute
AMOC ..... alternate means of control
ARP ..... Acid Rain Program
ASTM ..... American Society of Testing and Materials
B/PA ..... Beaumont/Port Arthur (nonattainment area)
CAM ..... Compliance Assurance Monitoring
CD ..... control device
CEMS ..... continuous emissions monitoring system
CFR ..... Code of Federal Regulations
COMS ..... continuous opacity monitoring system
CVS ..... closed vent system
D/FW ..... Dallas/Fort Worth (nonattainment area)
EP ..... emission point
EPA ..... U.S. Environmental Protection Agency
EU ..... emission unit
FCAA Amendments ..... Federal Clean Air Act Amendments
FOP ..... federal operating permit
gr/100 scf ..... grains per 100 standard cubic feet
HAP ..... hazardous air pollutant
H/G/B ..... Houston/Galveston/Brazoria (nonattainment area)
H_2S ..... hydrogen sulfide
ID No. ..... identification number
lb/hr ..... pound(s) per hour
MACT ..... Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr ..... Million British thermal units per hour
NA ..... nonattainment
N/A ..... not applicable
NADB ..... National Allowance Data Base
NESHAP ..... National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standard (40 CFR Part 60)
NSR ..... New Source Review
ORIS ..... Office of Regulatory Information Systems
Pb ..... lead
PBR ..... Permit By Rule
PEMS ..... predictive emissions monitoring system
PM ..... particulate matter
ppmv ..... parts per million by volume
PRO ..... process unit
PSD ..... prevention of significant deterioration
psia ..... pounds per square inch absolute
SIP ..... state implementation plan
SO_2 ..... sulfur dioxide
TCEQ ..... Texas Commission on Environmental Quality
TSP ..... total suspended particulate
TVP ..... true vapor pressure
U.S.C. ..... United States Code
VOC ..... volatile organic compound

Appendix B

Major NSR Summary Table

Permit Number: 77679 and PSDTX106M1					Issuance Date: July 30, 2021		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/ Application Information**	**Special Condition/ Application Information**	**Special Condition/ Application Information**
BFB-1	Bubbling Fluidized Bed Boiler (6) 1374 MMBtu/hr	NO_x	137.0	602.0	4, 5, 25, 26, 28, 29, 30, 32	4, 5, 12, 26, 28, 29, 30, 32, 34, 36, 37, 38	4, 5, 26, 28, 29, 30, 32, 35, 38
		NO_x (MSS)	250.0	-			
		CO	227.0	903.0			
		CO (MSS)	454.0	-			
		VOC	20.0	78.0			
		VOC (MSS)	40.0	-			
		PM	50.05	193.0			
		PM_{10}	46.12	193.0			
		$PM_{2.5}$	44.43	193.0			
		SO_2	474.0	277.0			
		H_2SO_4	3.6	6.02			
		H_2SO_4 (MSS)	4.3	-			
		NH_3	18.0	55.0			
		NH_3 (MSS)	19.0	-			
		HCl	97.5	120.4			
		Pb	0.1	0.3			
		Hg	0.004	0.018			

Major NSR Summary Table

Permit Number: 77679 and PSDTX106M1					Issuance Date: July 30, 2021		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/ Application Information**	**Special Condition/ Application Information**	**Special Condition/ Application Information**
PROPHTR	Propane Heater 5 MMBtu/hr	NO_x	0.53	0.23		37	
		CO	0.19	0.08			
		VOC	0.01	<0.01			
		PM	0.03	0.01			
		PM_{10}	0.03	0.01			
		$PM_{2.5}$	0.03	0.01			
		SO_2	0.04	0.02			
PROP-FUG-1	Propane Piping Fugitives (4)	VOC	0.43	1.91			
NH_3-FUG-1	Aqueous Ammonia Fugitives	NH_3	0.02	0.08	16	37	
LVSTG-1	Steam Turbine Lube Oil Vent	VOC	<0.01	0.04			
CT-1	Cooling Tower	PM	0.78	3.40	27, 33	27	
		PM_{10}	0.44	1.94			
		$PM_{2.5}$	0.11	0.50			
TK-DSL-1	Firewater Pump Diesel Tank	VOC	0.01	<0.01	17	17	
TK-DSL-2	Emergency Engine Diesel Tank	VOC	0.27	<0.01	17	17	
TK-DSL-3	General Plant Use Diesel Fuel Tank	VOC	0.31	<0.01	17	17	
TRK	Truck Unloader/Receiving	PM	0.32	<0.01		18, 37	
		PM_{10}	0.15	0.05			
		$PM_{2.5}$	0.02	<0.01			
	Wood Processing Building	PM	0.31	0.32		18, 37	

Major NSR Summary Table

Permit Number: 77679 and PSDTX106M1					Issuance Date: July 30, 2021		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/ Application Information**	**Special Condition/ Application Information**	**Special Condition/ Application Information**
WDPROC-FUG	Fugitives (4)	PM_{10}	0.13	0.14			
		$PM_{2.5}$	0.02	0.02			
WDPROC-DC	Wood Processing Building Dust Collector	PM	0.06	0.06		18, 37	
		PM_{10}	0.03	0.03			
		$PM_{2.5}$	<0.01	<0.01			
TR-1	Wood Chips to Conveyors 1A & 1B	PM	0.04	0.05			
		PM_{10}	0.014	0.016	22	18, 22, 37	
		$PM_{2.5}$	<0.01	<0.01			
TR-2	Conveyors 1A & 1B to Conveyor 2 Transfer	PM	0.04	0.05			
		PM_{10}	0.014	0.016	22	18, 22, 37	
		$PM_{2.5}$	<0.01	<0.01			
TR-3	Conveyors 3 to Conveyor 5 Transfer	PM	0.021	0.02			
		PM_{10}	0.007	<0.01	22	18, 22, 37	
		$PM_{2.5}$	<0.01	<0.01			
TR-4	Conveyor 4 to Conveyor 5 Transfer	PM	0.021	0.02			
		PM_{10}	<0.01	<0.01	22	18, 22, 37	
		$PM_{2.5}$	<0.01	<0.01			
TR-5	Conveyor 5 to Conveyor 6 & 7 Transfer/Bypass	PM	0.042	0.05			
		PM_{10}	0.014	0.016	22	18, 22, 37	
		$PM_{2.5}$	<0.01	<0.01			

Major NSR Summary Table

Permit Number: 77679 and PSDTX106M1					Issuance Date: July 30, 2021		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/ Application Information**	**Special Condition/ Application Information**	**Special Condition/ Application Information**
TR-6	Conveyor 6 to Radical Stacker	PM	0.04	0.05	22	18, 22, 37	
		PM_{10}	0.014	0.016			
		$PM_{2.5}$	<0.01	<0.01			
TR-7	Autoreclaimer to Conveyor 8	PM	0.014	0.02	22	18, 22, 37	
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			
TR-8	Underground Pile Reclaim to Conveyor 8	PM	0.014	0.02	22	18, 22, 37	
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			
TR-9	Conveyor 8 to Conveyor 9 Transfer	PM	0.014	0.05	22	18, 22, 37	
		PM_{10}	<0.01	0.016			
		$PM_{2.5}$	<0.01	<0.01			
TR-10	Conveyor 9 to Conveyor 10 & 11	PM	0.014	0.05	22	18, 22, 37	
		PM_{10}	<0.01	0.016			
		$PM_{2.5}$	<0.01	<0.01			
TR-11	Underground Pile Reclaim to Conveyor 14	PM	0.014	0.05	22	18, 22, 37	
		PM_{10}	<0.01	0.016			
		$PM_{2.5}$	<0.01	<0.01			
C-2	Conveyor from Receiving	PM	0.149	0.17	22	18, 22, 37	
		PM_{10}	0.05	0.06			

Major NSR Summary Table

Permit Number: 77679 and PSDTX106M1					Issuance Date: July 30, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/ Application Information	Special Condition/ Application Information	Special Condition/ Application Information
		$PM_{2.5}$	<0.01	<0.01			

Major NSR Summary Table

Permit Number: 77679 and PSDTX106M1					Issuance Date: July 30, 2021		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/ Application Information**	**Special Condition/ Application Information**	**Special Condition/ Application Information**
C-5	Wood Processing to Stockpile Area Conveyor	PM	0.16	0.18	22	18, 22, 37	
		PM_{10}	0.05	0.06			
		$PM_{2.5}$	<0.01	<0.01			
C-6	Conveyor to Autopile	PM	0.10	0.12	22	18, 22, 37	
		PM_{10}	0.033	0.039			
		$PM_{2.5}$	<0.01	<0.01			
C-8	Conveyor from Autopile	PM	0.034	0.12	22	18, 22, 37	
		PM_{10}	0.01	0.04			
		$PM_{2.5}$	<0.01	<0.01			
C-10/11	Conveyors to Feed Silos	PM	0.063	0.22	22	18, 22, 37	
		PM_{10}	0.02	0.07			
		$PM_{2.5}$	<0.01	0.01			
FSILO 1	Boiler Feed Silo 1	PM	0.51	0.23	24	24, 37	
		PM_{10}	0.51	0.23			
		$PM_{2.5}$	0.08	0.03			
FSILO 2	Boiler Feed Silo 2	PM	0.343	0.15	24	24, 37	
		PM_{10}	0.343	0.15			
		$PM_{2.5}$	0.05	0.02			
LIME-DC	Hydrated Lime Silo Dust Collector	PM	0.086	0.038	24	24, 37	
		PM_{10}	0.086	0.038			
		$PM_{2.5}$	0.01	<0.01			

Major NSR Summary Table

Permit Number: 77679 and PSDTX106M1					Issuance Date: July 30, 2021		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/ Application Information**	**Special Condition/ Application Information**	**Special Condition/ Application Information**
FA-DC2	Fly Ash Silo Loadout Dust Collector	PM	0.04	0.019	24	24, 37	
		PM_{10}	0.04	0.019			
		$PM_{2.5}$	<0.01	<0.01			
FA-FUG	Fly Ash Silo Truck Loading Fugitives (4)	PM	0.31	0.04			
		PM_{10}	0.08	0.011			
		$PM_{2.5}$	0.01	<0.01			
BA-FUG	Bottom Ash Truck Loading Fugitives (4)	PM	<0.01	<0.01			
		PM_{10}	<0.01	0.01			
		$PM_{2.5}$	0.01	<0.01			
AUTOPILE	Wood Storage Auto Pile	PM	0.38	0.50			
		PM_{10}	0.18	0.24			
		$PM_{2.5}$	0.03	0.04			
MANPILE	Wood Storage Manual Pile	PM	0.65	0.86			
		PM_{10}	0.31	0.41			
		$PM_{2.5}$	0.05	0.06			

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
H_2SO_4 - sulfuric acid mist

HCl - hydrogen chloride
NH_3 - ammonia
Pb - lead
Hg - mercury
MSS - maintenance, startup, and shutdown

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(5) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(6) Planned maintenance, startup and shutdown (MSS) pound per hour (lb/hr) emissions for all pollutants are authorized even if not specifically identified as MSS. During any clock hour that includes one or more minutes of planned MSS that pollutant's maximum hourly emission rate shall apply during that clock hour.
(7) The lb/hr and ton per year include emissions from maintenance, startup and shutdown unless specified otherwise.

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
City of Austin
Authorizing the Construction and Operation of
Nacogdoches Generating Facility
Located at **Cushing, Nacogdoches County, Texas**
Latitude 31° 49′ 56″ Longitude −94° 54′ 6″

Permit: 77679 and PSDTX1061M1

Revision Date: July 30, 2021

Expiration Date: December 29, 2026

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)] [1]
2. **Voiding of Permit**. A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1)the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of $5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress**. Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification**. The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements**. If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates**. The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] [1]
9. **Maintenance of Emission Control**. The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules**. Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. [1]

[1] Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius
°F = Temperature in degrees Fahrenheit
°K = Temperature in degrees Kelvin
µg = microgram
$\mu g/m^3$ = microgram per cubic meter
acfm = actual cubic feet per minute
AMOC = alternate means of control
AOS = alternative operating scenario
AP-42 = Air Pollutant Emission Factors, 5th edition
APD = Air Permits Division
API = American Petroleum Institute
APWL = air pollutant watch list
BPA = Beaumont/ Port Arthur
BACT = best available control technology
BAE = baseline actual emissions
bbl = barrel
bbl/day = barrel per day
bhp = brake horsepower
BMP = best management practices
Btu = British thermal unit
Btu/scf = British thermal unit per standard cubic foot or feet
CAA = Clean Air Act
CAM = compliance-assurance monitoring
CEMS = continuous emissions monitoring systems
cfm = cubic feet (per) minute
CFR = Code of Federal Regulations
CN = customer ID number
CNG = compressed natural gas
CO = carbon monoxide
COMS = continuous opacity monitoring system
CPMS = continuous parametric monitoring system
DFW = Dallas/ Fort Worth (Metroplex)
DE = destruction efficiency
DRE = destruction and removal efficiency
dscf = dry standard cubic foot or feet
dscfm = dry standard cubic foot or feet per minute
ED = (TCEQ) Executive Director
EF = emissions factor
EFR = external floating roof tank
EGU = electric generating unit
EI = Emissions Inventory
ELP = El Paso
EPA = (United States) Environmental Protection Agency
EPN = emission point number
ESL = effects screening level
ESP = electrostatic precipitator
FCAA = Federal Clean Air Act
FCCU = fluid catalytic cracking unit
FID = flame ionization detector
FIN = facility identification number
ft = foot or feet
ft/sec = foot or feet per second
g = gram
gal/wk = gallon per week
gal/yr = gallon per year
GLC = ground level concentration
GLC_{max} = maximum (predicted) ground-level concentration
gpm = gallon per minute
gr/1000scf = grain per 1000 standard cubic feet
gr/dscf = grain per dry standard cubic feet
H_2CO = formaldehyde
H_2S = hydrogen sulfide
H_2SO_4 = sulfuric acid
HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
HC = hydrocarbons
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/Brazoria
hp = horsepower
hr = hour
IFR = internal floating roof tank
in H_2O = inches of water
in Hg = inches of mercury
IR = infrared
ISC3 = Industrial Source Complex, a dispersion model
ISCST3 = Industrial Source Complex Short-Term, a dispersion model
K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
LACT = lease automatic custody transfer
LAER = lowest achievable emission rate
lb = pound
hp = horsepower
hr = hour lb/day = pound per day
lb/hr = pound per hour
lb/MMBtu = pound per million British thermal units
LDAR = Leak Detection and Repair (Requirements)
LNG = liquefied natural gas
LPG = liquefied petroleum gas
LT/D = long ton per day
m = meter
m^3 = cubic meter
m/sec = meters per second
MACT = maximum achievable control technology
MAERT = Maximum Allowable Emission Rate Table
MERA = Modeling and Effects Review Applicability
mg = milligram
mg/g = milligram per gram
mL = milliliter
MMBtu = million British thermal units
MMBtu/hr = million British thermal units per hour
MSDS = material safety data sheet
MSS = maintenance, startup, and shutdown
MW = megawatt
NAAQS = National Ambient Air Quality Standards
NESHAP = National Emission Standards for Hazardous Air Pollutants
NGL = natural gas liquids
NNSR = nonattainment new source review
NO_x = total oxides of nitrogen

NSPS = New Source Performance Standards
PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
$PM_{2.5}$ = particulate matter equal to or less than 2.5 microns in diameter
PM_{10} = total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
POC = products of combustion
ppb = parts per billion
ppm = parts per million
ppmv = parts per million (by) volume
psia = pounds (per) square inch, absolute
psig = pounds (per) square inch, gage
PTE = potential to emit
RA = relative accuracy
RATA = relative accuracy test audit
RM = reference method
RVP = Reid vapor pressure
scf = standard cubic foot or feet
scfm = standard cubic foot or feet (per) minute
SCR = selective catalytic reduction
SIL = significant impact levels
SNCR = selective non-catalytic reduction
SO_2 = sulfur dioxide
SOCMI = synthetic organic chemical manufacturing industry
SRU = sulfur recovery unit
TAC = Texas Administrative Code
TCAA = Texas Clean Air Act
TCEQ = Texas Commission on Environmental Quality
TD = Toxicology Division
TLV = threshold limit value
TMDL = total maximum daily load
tpd = tons per day
tpy = tons per year
TVP = true vapor pressure
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VRU = vapor recovery unit or system

Special Conditions

Permit Numbers 77679 and PSDTX1061M1

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission limits and other conditions specified in that attached table. Compliance with the annual emission limits shall be based on throughput for a rolling 12-month year rather than the calendar year. This permit authorizes startup and shutdown activities which comply with the emission limits in the maximum allowable emission rates table (MAERT) and the opacity limits in Special Condition Nos. 9 and 24. **(4/19)**

Bubbling Fluidized Bed Boiler (BFB)

Permit Representations

2. Emission limits are based upon representations in the permit application dated December 22, 2005, subsequent submittals, and the case-by-case maximum allowable control technology (MACT) analysis submitted December 23, 2008. **(07/09)**

3. The following sources are authorized by Permit by Rule (PBR) under Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106): **(07/12)**

Activity/Facility	PBR
Portable and Emergency Engines and Turbine	106.511

Federal Applicability

4. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources (NSPS) Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) promulgated for:

   A. Subpart A: General Conditions.

   B. Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. [Boiler Emission Point Number (EPN): BFB-1]

5. These facilities shall comply with all applicable requirements of EPA regulations on National Emission Standards for Hazardous Air Pollutants for Source (NESHAP) Categories in 40 CFR Part 63, promulgated for:

   A. Subpart A: General Provisions.

   B. Subpart DDDDD: National Emission Standards for Industrial, Commercial, and institutional Boilers and Process Heaters **(10/15)**

   If any condition of this permit is more stringent than the regulations identified in Special Conditions No. 4 and 5, then for the purposes of complying with this permit, the permit shall govern and be the standard by which compliance shall be demonstrated.

Fuel Specifications, Operating Limitations, Performance Standards, and Construction Specifications

6. Fuel fired in the BFB Boiler (EPN: BFB-1) will consist of biomass fuel as defined in the permit application dated December 22, 2005, and in subsequent submittals. Propane will be used for start-up. Use of any other fuel will require prior approval from the permitting authority.

   Upon request by the Executive Director of the Texas Commission on Environmental Quality (TCEQ) or any air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuel fired in the BFB Boiler or shall allow air pollution control agency representatives to obtain a sample for analysis. **(12/10)**

7. The BFB Boiler (EPN: BFB-1) shall be limited to a maximum heat input of 1374 million British thermal units per hour (MMBtu/hr), averaged over a calendar month, based on the higher heating value (HHV) of the fuel fired.

8. A heater (EPN: PROPHTR) will be used to vaporize the propane fuel supplied to the BFB boiler (EPN: BFB-1) during startup and miscellaneous maintenance activities. This vaporizer will be fired on propane fuel and will be rated at 5 MMBtu/hr. Use of the heater shall be limited to 884 hours per year (hr/yr) after commissioning of the unit is complete. **(12/13)**

9. Opacity of emissions from the BFB Boiler (EPN: BFB-1) must not exceed 10 percent, averaged over a six-minute period, except for those periods described in 30 TAC § 111.111(a) (1)(E), 40 CFR § 60.11(c), or as otherwise allowed by law. Periods of opacity greater than 20% for planned offline maintenance (Attachment A) are authorized for a maximum of 72 hr/yr. **(12/13)**

10. Emissions from the BFB Boiler (EPN: BFB-1) shall not exceed the following except during periods of maintenance, start-up, and shutdown (MSS): **(07/09)**

    A. Standards demonstrated by Continuous Emissions Monitoring Systems (CEMS) **(12/10)**

Pollutant	Performance Standard	Units	Averaging Period
NO_x	0.10	lb/MMBtu	30-day rolling average
			12-mo rolling average
CO	0.15	lb/MMBtu	30-day rolling average
			12-mo rolling average
SO_2	0.046	lb/MMBtu	30-day rolling average
			12-mo rolling average
NH_3	15	ppmvd corrected to 7% O_2	30-day rolling average
	14		12-mo rolling average

    B. Standards demonstrated by EPA Reference Method (RM) testing **(10/09)**

Pollutant	Performance Standard	Units	Compliance Demonstration Period
VOC	0.013	lb/MMBtu	30-day
PM/PM_{10} (front-half catch)	0.015	lb/MMBtu	30-day

Pollutant	Performance Standard	Units	Compliance Demonstration Period
$PM/PM_{10}/PM_{2.5}$ (total)	0.032	lb/MMBtu	30-day
H_2SO_4	0.001	lb/MMBtu	annual
HCl	0.02	lb/MMBtu	30-day
Hg	3.0	lb/TBtu	annual

C. The higher heating value of the fuel shall be used to calculate the pounds of emissions per MMBtu (lb/MMBtu) and the pounds of emission per trillion British thermal units (lb/TBtu).

D. EPA RMs, based on the average of three stack sampling runs to be conducted as prescribed by Special Conditions No. 25 and 32.

E. Total particulate matter $(PM)/PM_{10}/PM_{2.5}$ including back-half (condensibles) catch of sampling train.

11. In the event that the CEMS for nitrogen oxide (NO_x) is not operating for a period longer than one hour while the BFB boiler is operating, the permit holder shall operate at no less than the ammonia feed rate to the Selective Non-Catalytic Reduction (SNCR) that was measured prior to the loss of the CEMS, adjusted for load or other operating parameters.

12. The holder of this permit shall operate the BFB Boiler (EPN: BFB-1) and associated air pollution control equipment in accordance with good air pollution control practices to minimize emissions during MSS, by operating in accordance with a written MSS plan which complies with 30 TAC § 101.211. The plan shall include detailed procedures for review of relevant operating parameters of the BFB Boiler and associated air pollution control equipment during MSS to make adjustments and corrections to reduce or eliminate any excess emissions. The plan shall also address readily foreseeable start-up scenarios, including hot start-ups, when the operation of the boiler is only temporarily interrupted, and provide for appropriate review of the operational condition of the boiler before initiating start-up. In addition, the plan shall address procedures for minimizing opacity and PM emissions while conducting on-line maintenance of the BFB boiler baghouses.

13. The BFB Boiler Stack (EPN: BFB-1) will be approximately 240 feet tall with an exit diameter of 12 feet. Stack sampling ports and platform(s) shall be constructed on the stack as specified in the attachment entitled "Chapter 2, Stack Sampling Facilities," or an alternate design may be required at a later date if determined necessary by the appropriate TCEQ Regional Director. Adequate advance notice shall be provided by TCEQ if an alternate design is required. **(07/09)**

14. Chromium-based solutions shall not be used in the Cooling Tower (EPN: CT-1). **(12/10)**

Chemical Storage

15. Aqueous ammonia storage tanks shall be located within a physical barrier to traffic. Tank containment shall be employed with a minimum of 110 percent of tank volume. Vapors resulting from the filling operations of the aqueous ammonia storage tank(s) shall be collected and vapor returned back to the transport vessel.

    The relief valve system shall be designed and operated to ensure that there are no working loss emissions to the atmosphere resulting from filling operations, and that there are no breathing losses

during normal non-filling (standing) operations. The fill level of the aqueous ammonia storage tank shall not exceed a level that is in line with good engineering practices, and shall include a high level alarm and a high-high level alarm. In addition, sealless pumps shall be used in all piping handling aqueous ammonia.

16. Audio, olfactory, and visual checks for ammonia leaks shall be made once per day within the operating area.

    A. No later than one hour following detection of a leak, plant personnel shall take the following actions:

        (1) Locate and isolate the leak; and

        (2) Use a leak collection or containment system to control the leak until repair or replacement can be made.

    B. Within 24 hours of detection of a leak, plant personnel shall commence repair or replacement of the leaking component as appropriate.

17. The uninsulated exterior surfaces of any storage tanks at the site must be white or aluminum. In addition, all storage tanks must be equipped with permanent submerged fill pipes. **(7/16)**

    A. The permit holder shall keep a record of tank construction specifications (e.g. engineering drawings) that shows a fill pipe that extends from the top of the tank to have a maximum clearance of six inches from the bottom or, when the tank is loaded from the side, a discharge opening entirely submerged when the pipe used to withdraw liquid from the tank can no longer withdraw liquid in normal operation.

    B. The permit holder shall inspect to determine the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed to ensure that it continues to meet the specifications in the above requirement. If the structural integrity of the fill pipe is in question, repairs shall be made before the storage vessel is refilled. It shall be considered and reported as a deviation if the repairs are not completed prior to refilling the storage vessel.

Material Handling Operating Limitations and Standards

18. Total biomass fuel unloaded at the facilities authorized by this permit shall not exceed 1,200 tons per hour or 14,400 tons per rolling 24 hour period and shall be delivered at the drive through unloading building as described in the application dated May 20, 2010. **(12/10)**

19. Plant roads shall be paved with a cohesive hard surface which can be cleaned by sweeping or washing; or sprinkled with water and/or surface crusting agents as necessary to maintain compliance with all TCEQ rules and regulations.

20. Material storage area footprints shall be limited as follows: **(12/10)**

EPN	Source	Area
AUTOPILE	Wood Storage Auto Pile	3.15 acres
MANPILE	Wood Storage Manual Pile	4.4 acres

21. All conveyors shall be covered or enclosed, as represented in the application, to minimize fugitive PM emissions. If visibility problems occur, additional controls may be required. Coverings and enclosures are considered abatement equipment, and shall be kept in good repair.

22. Fugitive emissions from the transfer points on belt conveyors, any material handling, and the stockpile activities shall not create an off-property nuisance condition. Title 40 CFR Part 60, Appendix A, RM 22, or equivalent, shall be used to determine compliance with this special condition. Observations shall be performed and recorded quarterly. If this condition is violated, additional controls or process changes may be required to limit visible PM emissions. **(12/10)**

23. Material handling baghouses, designed to meet an emission limit of 0.01 grain PM per dry standard cubic foot of exhaust, properly installed and in good working order, shall control PM emissions from the following sources: **(7/12)**

EPN	Source
FSILO-1	Boiler Feed Silo 1
FSILO-2	Boiler Feed Silo 2
LIME-DC	Hydrated Lime Silo Dust Collector
FA-DC2	Fly Ash Silo Loadout Dust Collector

24. Opacity of emissions from any single fabric filter baghouse stack listed in Special Condition No. 23 shall not exceed 5 percent averaged over a six-minute period. Determination of compliance with this requirement shall be made by first observing for visible emissions during normal plant operations. Observations shall be made at least 15 feet and no more than 0.25 mile from the emission point. If visible emissions are observed from the emission point, opacity shall be determined using 40 CFR Part 60, Appendix A, Test Method 9. Contributions from uncombined water vapor shall not be included in determining compliance with this condition. Determination of compliance with this requirement shall be performed and the results recorded quarterly. **(12/10)**

Initial Demonstration of Compliance

25. The holder of this permit shall perform initial stack sampling and other testing to establish the actual quantities of air contaminants being emitted into the atmosphere. Unless otherwise specified in this special condition, the sampling and testing shall be conducted in accordance with the methods and procedures specified in Special Condition No. 26. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. The TCEQ Executive Director or his designated representative shall be afforded the opportunity to observe all such sampling.

    A. Demonstrate compliance with the performance standards of Special Condition No. 10 and the hourly emission rates of the MAERT, applicable to normal operations, using the average of three one-hour stack sampling test runs for each contaminant.

    B. Air contaminants to be sampled and analyzed under (1) above include: NO_x, carbon monoxide (CO), sulfur dioxide (SO_2), volatile organic compounds (VOC), PM, PM_{10}, sulfuric acid (H_2SO_4), ammonia (NH_3), mercury (Hg), and hydrochloric acid (HCl). Diluents to be measured include oxygen (O_2) or carbon dioxide (CO_2).

    C. Demonstrate compliance with the opacity performance standards of Special Condition No. 9 applicable to normal operations, using the average of 30 six minute readings as provided in 40 CFR § 60.11(b).

D. Demonstrate compliance with 40 CFR Part 60, Subparts A and Db, for NO_x, SO_2, PM, and opacity.

E. Boiler load during testing shall be maintained as follows.

(1) Operate at maximum firing rates for the atmospheric conditions occurring during the test as measured by millions of pounds of steam generated per hour or MW of electric generator output. If the steam generating unit is unable to operate at maximum rates during testing, then additional stack testing may be required when higher production rates are achieved.

(2) During 30-day average emission testing, the boiler load does not have to be maximum, but the load must be representative of future operating conditions and must include at least one 24-hour period at full load.

F. Initial compliance testing was completed on 6/20/2012

Test Methods and Procedures

26. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual, EPA Methods in 40 CFR Part 60, Appendix A and 40 CFR Part 51, Appendix M, EPA Conditional Test Methods, and American Society for Testing and Materials (ASTM).

A. The following, or equivalent, test methods shall be used:

(1) Appendix A, Methods 1 through 4, as appropriate, for exhaust flow, diluent, and moisture concentration;

(2) Appendix A, Methods 5 or 17, modified to include back-half condensibles, for the concentration of PM;

(3) Appendix A, Methods 5 or 17, for the filterable concentration of PM (front half catch);

(4) Appendix A, Methods 6, 6a, 6c, or 8, for the concentration of SO_2;

(5) Appendix A, Method 7E for the concentrations of NO_x and O_2, or equivalent methods;

(6) Appendix A, Method 8, modified Method 8 or the controlled condensate method for H_2SO_4;

(7) Appendix A, Method 9 for opacity;

(8) Appendix A, Method 10 for the concentration of CO;

(9) Appendix A, Method 19, for applicable calculation methods;

(10) Appendix A, Method 22, for visible emissions;

(11) Appendix A, Method 25A, modified to exclude methane and ethane, for the concentration of VOC (to measure total carbon as propane);

(12) Appendix A, Method 26 or 26A for HCl;

(13) EPA Conditional Test Method 27 (CTM-027), for NH_3;

(14) Appendix M, Methods 201A and 202, or Appendix A, Reference 5 Method 5, modified to include back-half condensibles, for the concentration of particulate matter less than 10 microns in diameter, PM_{10}; and

(15) Appendix M, Methods 201A or Appendix A, Reference Method 5, for the filterable concentration of particulate matter less than 10, PM_{10} (front-half catch);

Requests to waive testing for any pollutant specified in this condition shall be submitted to the TCEQ Office of Air, Air Permits Division. Test waivers and alternate or equivalent procedure proposals for New Source Performance Standards testing which must have EPA approval shall be submitted to the TCEQ Beaumont Regional Director.

B. The TCEQ Beaumont Regional Office shall be given notice as soon as testing is scheduled but not less than 30 days prior to sampling to schedule a pretest meeting.

(1) The notice shall include:

(a) Date for pretest meeting;

(b) Date sampling will occur;

(c) Name of firm conducting sampling;

(d) Type of sampling equipment to be used;

(e) Method or procedure to be used in sampling;

(f) Projected date of commencement of the 30-day rolling average initial performance tests for SO_2 and NO_x; and

(g) Fuel to be fired during the test.

(2) The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports.

The permit holder shall present at the pretest meeting the manner in which stack sampling will be conducted in order to demonstrate compliance with emission standards found in this permit and 40 CFR Part 60, Subpart Db. **(12/10)**

(3) Prior to the pretest meeting, a written proposed description of any deviation from sampling procedures specified in permit conditions or TCEQ, EPA, or ASTM sampling procedures shall be made available to the TCEQ. The TCEQ Beaumont Regional Director shall approve or disapprove of any deviation from specified sampling procedures.

C. Information in the test report shall include the following data for each test run:

(1) hourly biomass fuel firing rate (in tons);

(2) average biomass fuel Btu/lb as-received and dry weight;

(3) average steam generation rate in millions of pounds per hour;

(4) average generator output in MW;

(5) control device operating rates, including SNCR for EPN BFB-1 reagent injection rate; **(12/10)**

(6) emissions in the units of the limits of this permit, lb/hr and lb/MMBtu, three hour or 30-day average, as appropriate; and

(7) any additional records deemed necessary during the stack sampling pre-test meeting.

D. Two copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached conditions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

(1) One copy to the TCEQ Beaumont Regional Office.

(2) One copy to the EPA Region 6 Office, Dallas.

27. For the Cooling Tower (EPN: CT-1), demonstrate compliance with the emission rates of the MAERT by records that demonstrate that the drift eliminators are designed to limit drift as specified in the application, and by inspection of modules when the unit is down for scheduled outage, selected by the TCEQ Regional Director or his designated representative, for: consistency with the specified design; flow bypassing the drift eliminators; and damage to the eliminators. **(12/10)**

Continuous Demonstration of Compliance

28. The holder of this permit shall install, calibrate, maintain, and operate a CEMS to measure and record the concentrations of NO_x, CO, and SO_2 from EPN: BFB-1. Diluents to be measured include O_2 or CO_2. The CEMS data shall be used to determine continuous compliance with the NO_x, CO, and SO_2 emission limitations in Special Condition No. 10 and the attached MAERT. **(12/10)**

A. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B or an acceptable alternative. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Office of Air, Air Permits Division in Austin for requirements to be met.

B. The holder of this permit shall assure that the CEMS meets the applicable quality assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1, or an acceptable alternative. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, § 5.2.3 and any CEMS downtime and all cylinder gas audit exceedances of ± 15 percent accuracy shall be reported semiannually to the appropriate TCEQ Regional Director, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director.

C. The monitoring data shall be reduced to hourly average concentrations at least once every day, using normally a minimum of four equally spaced data points from each one hour period. The individual average concentrations shall be reduced to units of the permit allowable an emission rate in pounds per hour at least once every day. Pound per hour data shall be summed on a monthly basis to tons per year and used to determine compliance with the annual emissions limits of this permit.

If the CEMS malfunctions, then the recorded concentrations may be reduced to units of the permit allowable as soon as practicable after the CEMS resumes normal operation.

D. The Beaumont TCEQ Regional Office shall be notified at least 30 days prior to any required relative accuracy test audits in order to provide them the opportunity to observe the testing.

E. If applicable, each CEMS will be required to meet the design and performance specifications, pass the field tests, and meet the installation requirements, data analysis, and reporting

requirements specified in the applicable performance specifications in 40 CFR Part 75, Appendix A and B, as an acceptable alternative to paragraph A. of this condition.

F. Each CEMS covered by the special condition shall be operational during 95 percent of the operating hours of the BFB Boiler, exclusive of the time required for zero and span checks. If this operational criteria is not met for the reporting quarter, the holder of this permit shall develop and implement a monitor quality improvement plan. The plan should address the downtime issues to improve availability and reliability. The plan should provide additional assurance of compliance including record keeping of reagent flow rates for monitor downtime periods.

29. The holder of this permit shall install, calibrate, operate, and maintain a triboelectric flow meter (TFM) to detect leaks in the baghouses associated with EPN: BFB-1. The TFM bag leak detection system be used to determine continuous compliance with the opacity emission limitations in this permit. **(7/21)**

A. The maximum signal from the bag detection system shall not exceed one nano amps (nA). The monitoring device shall be accurate with a range of ± 2% nA.

B. The bag leak detection system shall be equipped with an alarm system that shall sound automatically upon detection of a broken bag.

C. The actual signal shall be continuously monitored and recorded at least 4 times per hour on days the unit is in operation.

D. The TFM bag leak detection system shall be operated and maintained in accordance with manufacturer's recommendations.

30. The NH_3 concentration in the BFB Boiler (EPN: BFB-1) shall be corrected and reported in accordance with Special Condition No. 10. The NH_3 concentration shall be tested or calculated according to one of the methods and frequencies listed below. Notification shall be provided to the TCEQ Beaumont Regional Office at the pretest meeting which method is going to be used, and notified 30 days in advance if a different method is going to be used. **(12/10)**

A. The holder of this permit may install, calibrate, maintain, and operate a CEMS to measure and record the concentrations of aqueous NH_3. **(7/12)**

B. As an approved alternative, the NH_3 slip may be measured using a sorbent or stain tube device specific for NH_3 measurement in the 5 to 15 parts per million (ppm) range. A minimum of three stain tubes shall be used to obtain an average NH_3 slip. A plan for demonstrating the ability to accurately obtain accurate sorbent or stain tube readings shall be presented to and approved by the TCEQ Beaumont Regional Office. The plan shall address how the sample shall be extracted and handled as well as the frequency of initial testing required to document that operating procedures have been developed to prevent excess amounts of NH_3 from being introduced in the BFB boiler and when operation of the unit has been proven successful with regard to controlling NH_3 slip. Once testing demonstrates that operational procedures have been demonstrated to control the NH_3 slip, testing shall be required weekly. If the average sorbent or stain tube testing indicates an NH_3 slip concentration which exceeds 13 ppm for the BFB boiler, the permit holder shall begin NH_3 testing by either the Phenol-Nitroprusside Method, the Indophenol Method, or the EPA Conditional Test Method (CTM) 27 on a quarterly basis, in addition to the weekly sorbent or stain tube testing. The TCEQ Beaumont Regional Office shall be notified by phone when quarterly testing is required and when no longer required.

The quarterly testing of the BFB Boiler shall continue until such time as the quarterly testing indicates NH_3 slip is 12 ppm or less, the Phenol-Nitroprusside/Indophenol/CTM 27 tests may be suspended until sorbent or stain tube testing again indicate 13 ppm NH_3 slip or greater. **(12/10)**

C. As an approved alternative to sorbent or stain tube testing, NH_3 CEMS, or a second NO_x CEMS, the permit holder may install and operate a dual stream system of NO_x CEMS in the BFB Boiler stack. One of the exhaust streams would be routed, in an unconverted state, to one NO_x CEMS and the other exhaust stream would be routed through NH_3 converter to convert NH_3 to NO_x and then to a second NO_x CEMS. The NH_3 slip concentration shall be calculated from the delta between the two NO_x CEMS readings (converted and unconverted). **(12/10)**

D. Any other method used for measuring NH_3 slip shall require prior approval from the TCEQ Beaumont Regional Director.

31. If any emission monitor fails to meet specified performance, it shall be repaired or replaced as soon as reasonably possible.

32. After the initial demonstration of compliance, stack sampling of EPN: BFB-1 for H_2SO_4, HCl, Hg, VOC, and total PM/PM_{10} shall be used to demonstrate continuous compliance and shall meet the following specifications:

A. Stack sampling shall be performed once annually during periods of normal operation, except as follows:

(1) If the annual test does not establish compliance with a performance standard of Special Condition No. 10, the holder of this permit may conduct additional tests (under similar operating conditions and fuel mixes as used during the initial test or under scenarios reviewed and approved by the TCEQ Regional Office) during the year to be averaged with the previous test(s) to demonstrate compliance; or

(2) If, after two years of stack sampling, the average of the two annual stack sampling results for a pollutant is less than 70 percent of the applicable performance standard identified in Special Condition No. 10, then compliance stack sampling for such pollutant shall be conducted once every three years.

B. Sampling required by this Special Condition shall demonstrate compliance with the performance standards of Special Condition No. 10 and the lb/hr emission limits of the MAERT applicable to normal operations.

C. Sampling required by this Special Condition shall be conducted in accordance with the methods, procedures, and notification protocol specified in Special Condition No. 26.

D. Ongoing compliance with the H_2SO_4, and HCl tons per year emission rates in the MAERT shall be demonstrated by calculating rolling 12-month annual emissions from emission factors (lb/MMBtu, HHV) obtained from the sampling required by this condition and the monthly total heat input (MMBtu, HHV) from biomass fuel.

33. Following the initial demonstration of compliance, ongoing compliance with the emission rates in the MAERT for the Cooling Tower (EPN: CT-1) will be based on inspection of modules during normal scheduled shutdowns, and repair as necessary to maintain drift eliminator structural integrity and minimize bypassing of flow around drift eliminators. **(12/10)**

Maintenance Activities (12/13)

34. Compliance with the emissions limits for planned maintenance activities for EPNs: BFB-1 identified in Attachment A may be demonstrated as follows:

    A. For each pollutant emitted during planned maintenance activities whose emissions are measured using a CEMS, the permit holder shall for each calendar month compare the pollutant's short-term (hourly) emissions as measured by the CEMS to the applicable short-term planned MSS emissions limit in the MAERT.

    B. For each pollutant emitted during planned maintenance activities whose emissions occur through a stack and are not measured using a CEMS the permit holder shall for each calendar month determine the total emissions of the pollutant.

    C. Sum all emissions from planned maintenance activities on a 12-month rolling basis for each EPN to show compliance with the MAERT.

As-Built Information

35. The holder of this permit shall submit to the TCEQ Beaumont Regional Office and the TCEQ Air Permits Division change pages to the permit application reflective of the final plans and engineering specifications on the BFB Boiler, emergency generator engine, and other sources, including their respective control equipment, no later than 30 days before initial startup of the BFB Boiler. This information shall include:

    A. All TCEQ Tables in the permit application, updated with manufacturer and other specified data;

    B. Revised plot plans and equipment drawings as required to reflect the constructed facility; and

    C. Identification of any maximum inputs of raw materials for the as-built facility, and any diesel fuel sulfur or engine manufacturer's emission specification that is lower than the values represented in the permit application and used for calculating or establishing emissions. Accompanying this information shall be a request for permit alteration.

    The TCEQ shall alter the permit special conditions and MAERT to reflect any such reduction in emissions. Increases in allowable emission rates require a permit amendment before construction begins. A permit amendment or alteration is not required if the as-built changes(s) to the facility qualify for a De Minimis listing or permit-by-rule under 30 TAC Chapter 106. **(7/12)**

Recordkeeping Requirements

Biomass Boiler

36. The following records shall be kept at the plant for the life of the permit. All records required in this permit shall be made available at the request of personnel from the TCEQ, the EPA, or any air pollution control agency with jurisdiction.

    A. A copy of this permit.

B. Permit application dated December 22, 2005, and subsequent representations submitted to the TCEQ.

C. A complete copy of the testing reports and records of the initial air emissions performance testing completed pursuant to the Initial Demonstration of Compliance.

D. Required stack sampling results or other air emissions testing (other than CEMS or COMS data) that may be conducted on units authorized under this permit after the date of issuance of this permit.

37. The following records shall be kept for a minimum of five years after collection and shall be made immediately available upon request to representatives of the TCEQ, the EPA, or any local air pollution control program having jurisdiction. Records shall be legible and maintained in an orderly manner. The following records shall be maintained:

A. Continuous emission and opacity monitoring data for opacity, NO_x, CO, SO_2, NH_3, and diluent gases, O_2 or CO_2, from CEMS to demonstrate compliance with the emission rates listed in the MAERT and performance standards listed in this permit for pollutants that are monitored by CEMS or TFM. Data retention at intervals less than one hour is not required. Records should identify the times when emissions data have been excluded from the calculation of average emission rates because of start-up, shutdown and maintenance along with the justification for excluding data. Records should also identify factors used in calculations that are used to demonstrate compliance with emissions limits and performance standards. **(7/21)**

B. Files of all CEMS or TFM quality-assurance measures, calibration checks, adjustments, and maintenance performed on these systems. **(7/21)**

C. Tons of biomass fuel received at the site monthly to show compliance with the throughput requirements of this permit.

D. Records of cleaning and maintenance performed on abatement equipment, including records of replacement maintenance performed on baghouses and conveyors. A log should be kept with descriptions of the activity performed and the time period over which it was performed.

E. Records required to show compliance with 40 CFR Part 60, Subpart Db, including records of required reporting. **(12/10)**

F. Records of daily road maintenance for dust control to show compliance with Special Condition No. 19.

G. Records of audio, olfactory, and visual checks for ammonia leaks and repairs to show compliance with Special Condition No. 16.

H. Hours of operation of the propane vaporizer to demonstrate compliance with the hourly operating limitation in Special Condition No. 8. **(12/10)**

I. Records of quarterly visible emission checks and opacity measurements (as needed) required by Special Condition No. 24. **(12/10)**

J. Records of emissions from non-MSS and MSS for the boiler kept on a monthly basis. These must be summed on a rolling 12-month basis to demonstrate compliance with the ton per year emission limits on the MAERT. **(12/13)**

Reporting for BFB

38. The holder of this permit shall submit to the TCEQ Beaumont Regional Office and the Air Enforcement Branch of EPA in Dallas quarterly reports as described in 40 CFR § 60.7. Such reports are required for each emission unit which is required to be continuously monitored pursuant to this permit.

Date: July 30, 2021

Attachment A

Permit Numbers 77679 and PSDTX1061M1

Planned Maintenance Activities for Boiler							
Activity	EPN	Emissions					
		NO_x	CO	VOC	PM	SO2	NH_3
Boiler General Maintenance[1]	BFB-1				X		
On-line ammonia injection system maintenance and tuning[2]	BFB-1				X		
Use of fans during maintenance - unit off-line	BFB-1				X		
Combustion Optimization[3]	BFB-1	X	X	X	X	X	X

Date: December 9, 2013

[1] Includes but is not limited to sand change out, refractory change-out, fan maintenance/balancing, maintenance of the damper/air/heater/soot blower, and any other general maintenance that does not exceed the worst case emission representations in the application.

[2] Includes, but is not limited to replacement, cleaning, activation, and deactivation of SNCR and oxidation catalyst.

[3] Includes, but is not limited to the following: (a) leak and operability checks (e.g. trouble shooting), (b) balancing, (c) tuning activities that occur during seasonal tuning or after initial construction, a combustor change out, a major repair/maintenance to a combustor, or other similar circumstances.

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 77679 and PSDTX1061M1

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lb/hr	TPY (5)
BFB-1	Bubbling Fluidized Bed Boiler (6) 1374 MMBtu/hr	NO_x	137.0	602.0
		NO_x (MSS)	250.0	-
		CO	227.0	903.0
		CO (MSS)	454.0	-
		VOC	20.0	78.0
		VOC (MSS)	40.0	-
		PM	50.05	193.0
		PM_{10}	46.12	193.0
		$PM_{2.5}$	44.43	193.0
		SO_2	474.0	277.0
		H_2SO_4	3.6	6.02
		H_2SO_4 (MSS)	4.3	-
		NH_3	18.0	55.0
		NH_3 (MSS)	19.0	-
		HCl	97.5	120.4
		Pb	0.1	0.3
		Hg	0.004	0.018
PROPHTR	Propane Heater 5 MMBtu/hr	NO_x	0.53	0.23
		CO	0.19	0.08
		VOC	0.01	<0.01
		PM	0.03	0.01

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.03	0.01
		$PM_{2.5}$	0.03	0.01
		SO_2	0.04	0.02
PROP-FUG-1	Propane Piping Fugitives (4)	VOC	0.43	1.91
NH_3-FUG-1	Aqueous Ammonia Fugitives (4)	NH_3	0.02	0.08
LVSTG-1	Steam Turbine Lube Oil Vent	VOC	<0.01	0.04
CT-1	Cooling Tower	PM	0.78	3.40
		PM_{10}	0.44	1.94
		$PM_{2.5}$	0.11	0.50
TK-DSL-1	Firewater Pump Diesel Tank	VOC	0.01	<0.01
TK-DSL-2	Emergency Engine Diesel Tank	VOC	0.27	<0.01
TK-DSL-3	General Plant Use Diesel Fuel Tank	VOC	0.31	<0.01
TRK	Truck Unloader/Receiving	PM	0.32	<0.01
		PM_{10}	0.15	0.05
		$PM_{2.5}$	0.02	<0.01
WDPROC-FUG	Wood Processing Building Fugitives (4)	PM	0.31	0.32
		PM_{10}	0.13	0.14
		$PM_{2.5}$	0.02	0.02
WDPROC-DC	Wood Processing Building Dust Collector	PM	0.06	0.06
		PM_{10}	0.03	0.03
		$PM_{2.5}$	<0.01	<0.01
TR-1	Wood Chips to Conveyors 1A & 1B	PM	0.04	0.05
		PM_{10}	0.014	0.016
		$PM_{2.5}$	<0.01	<0.01
TR-2	Conveyors 1A & 1B to Conveyor 2 Transfer	PM	0.04	0.05

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.014	0.016
		$PM_{2.5}$	<0.01	<0.01
TR-3	Conveyors 3 to Conveyor 5 Transfer	PM	0.021	0.02
		PM_{10}	0.007	<0.01
		$PM_{2.5}$	<0.01	<0.01
TR-4	Conveyor 4 to Conveyor 5 Transfer	PM	0.021	0.02
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
TR-5	Conveyor 5 to Conveyor 6 & 7 Transfer/Bypass	PM	0.042	0.05
		PM_{10}	0.014	0.016
		$PM_{2.5}$	<0.01	<0.01
TR-6	Conveyor 6 to Radical Stacker	PM	0.04	0.05
		PM_{10}	0.014	0.016
		$PM_{2.5}$	<0.01	<0.01
TR-7	Autoreclaimer to Conveyor 8	PM	0.014	0.02
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
TR-8	Underground Pile Reclaim to Conveyor 8	PM	0.014	0.02
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
TR-9	Conveyor 8 to Conveyor 9 Transfer	PM	0.014	0.05
		PM_{10}	<0.01	0.016
		$PM_{2.5}$	<0.01	<0.01
TR-10	Conveyor 9 to Conveyor 10 & 11	PM	0.014	0.05
		PM_{10}	<0.01	0.016

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	<0.01	<0.01
TR-11	Underground Pile Reclaim to Conveyor 14	PM	0.014	0.05
		PM_{10}	<0.01	0.016
		$PM_{2.5}$	<0.01	<0.01
C-2	Conveyor from Receiving	PM	0.149	0.17
		PM_{10}	0.05	0.06
		$PM_{2.5}$	<0.01	<0.01
C-5	Wood Processing to Stockpile Area Conveyor	PM	0.16	0.18
		PM_{10}	0.05	0.06
		$PM_{2.5}$	<0.01	<0.01
C-6	Conveyor to Autopile	PM	0.10	0.12
		PM_{10}	0.033	0.039
		$PM_{2.5}$	<0.01	<0.01
C-8	Conveyor from Autopile	PM	0.034	0.12
		PM_{10}	0.01	0.04
		$PM_{2.5}$	<0.01	<0.01
C-10/11	Conveyors to Feed Silos	PM	0.063	0.22
		PM_{10}	0.02	0.07
		$PM_{2.5}$	<0.01	0.01
FSILO 1	Boiler Feed Silo 1	PM	0.51	0.23
		PM_{10}	0.51	0.23
		$PM_{2.5}$	0.08	0.03
FSILO 2	Boiler Feed Silo 2	PM	0.343	0.15
		PM_{10}	0.343	0.15
		$PM_{2.5}$	0.05	0.02

Emission Sources - Maximum Allowable Emission Rates

LIME-DC	Hydrated Lime Silo Dust Collector	PM	0.086	0.038
		PM_{10}	0.086	0.038
		$PM_{2.5}$	0.01	<0.01
FA-DC2	Fly Ash Silo Loadout Dust Collector	PM	0.04	0.019
		PM_{10}	0.04	0.019
		$PM_{2.5}$	<0.01	<0.01
FA-FUG	Fly Ash Silo Truck Loading Fugitives (4)	PM	0.31	0.04
		PM_{10}	0.08	0.011
		$PM_{2.5}$	0.01	<0.01
BA-FUG	Bottom Ash Truck Loading Fugitives (4)	PM	<0.01	<0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	0.01	<0.01
AUTOPILE	Wood Storage Auto Pile	PM	0.38	0.50
		PM_{10}	0.18	0.24
		$PM_{2.5}$	0.03	0.04
MANPILE	Wood Storage Manual Pile	PM	0.65	0.86
		PM_{10}	0.31	0.41
		$PM_{2.5}$	0.05	0.06

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
H_2SO_4 - sulfuric acid mist
HCl - hydrogen chloride
NH_3 - ammonia
Pb - lead
Hg - mercury

Emission Sources - Maximum Allowable Emission Rates

MSS - maintenance, startup, and shutdown

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.

(6) Planned maintenance, startup and shutdown (MSS) pound per hour (lb/hr) emissions for all pollutants are authorized even if not specifically identified as MSS. During any clock hour that includes one or more minutes of planned MSS that pollutant's maximum hourly emission rate shall apply during that clock hour.

(7) The lb/hr and ton per year include emissions from maintenance, startup and shutdown unless specified otherwise.

Date: April 9, 2019